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containing section for defining cells therebetween, the third loop containing section defining loops therein occurring at a second frequency that is greater than the first frequency.

Please add the following new claims.

18. (new) A cylindrical expandable stent comprising:
a plurality of first sinusoidal elements arranged in a circumferential direction,
each of said first elements aligned on a common longitudinal axis forming a part of a generally cylindrical stent body;

a plurality of second sinusoidal elements arranged in the circumferential direction,
each of said second elements also aligned on the common longitudinal axis forming a part of the stent body;

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each of said first and said second sinusoidal elements having a first wavelength;
a plurality of flexible interconnections disposed in a generally circumferential space between each of said first and said second elements and coupling said first elements to said second elements, each of said flexible interconnections including third sinusoidal elements having a second wavelength that is shorter than said first wavelength;

said first sinusoidal elements, said second sinusoidal elements and said flexible interconnections comprising the cylindrical stent.

19. (new) The stent according to claim 18 wherein said first and said second elements are 180 degrees out of phase with one another.

20. (new) The stent according to claim 18, wherein the flexible interconnections are displaced circumferentially along the stent.

21. (new) The stent according to claim 18, comprising sinusoidal elements whose amplitude varies along said elements.

22. (new) A cylindrical expandable stent comprising:
a plurality of first sinusoidal elements consisting essentially of a single sinusoidal pattern arranged in a circumferential direction, each of said first elements aligned on a common longitudinal axis to define a generally cylindrical stent body;

a plurality of second sinusoidal element consisting essentially of a single sinusoidal pattern arranged in the circumferential direction, each of said second elements aligned on a common longitudinal axis to define a generally cylindrical stent body;

each of said first and each of said second elements having a first wavelength;

a plurality of third sinusoidal elements disposed in a generally circumferential space between each of said first and each of said second elements and coupling said first to said second elements for defining cells therebetween, each of said third elements having a second wavelength that is shorter than said first wavelength.

23. (new) The stent according to claim 22, wherein said first and said second elements are 180 degrees out of phase with one another.

24. (new) The stent according to claim 22 comprising elements whose amplitude varies along each said element.

25. (new) A cylindrical expandable stent comprising:

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a plurality of generally sinusoidal elements including first and second elements, said first and second elements aligned on a common longitudinal axis to define a generally tubular stent body, and

said first elements having a first wavelength and said second elements having a second wavelength, said second wavelength longer than said first wavelength.

26. (new) The stent according to claim 25 wherein said first and said second elements alternate over the length of the stent.

27. (new) The stent according to claim 26 wherein each of said first elements are connected to adjacent said second elements and none of said second elements are directly connected to one another.

28. (new) The stent according to claim 26 wherein each of said first elements have a first amplitude and each of said second elements have a second amplitude that is greater than said first amplitude.

29. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements, each of the elements consisting essentially of a single sinusoidal pattern, said elements aligned on a common longitudinal axis to define a generally cylindrical stent body, and

 said elements including first and second elements, said first elements having a first wavelength and said second elements having a second wavelength, said second wavelength longer than said first wavelength.

Claim 30
30. (new) The stent according to claim 29, wherein said first and said second elements alternate over the length of the stent.

31. (new) The stent according to claim 30, wherein each of said first elements are connected to adjacent said second elements and none of said second elements are directly connected to one another.

32. (new) The stent according to claim 30, wherein each of said first elements has a first amplitude and each of said second elements has a second amplitude that is greater than said first amplitude.

33. (new) The stent according to claim 32 wherein adjacent said second elements are about 180° out of phase with one another.

34. (new) A cylindrical expandable stent comprising:
first sinusoidal elements arranged in a circumferential direction, said first elements aligned on a common longitudinal axis to define a generally cylindrical stent body;
second sinusoidal elements arranged in the circumferential direction, said second elements aligned on the common longitudinal axis to define the stent body;
 said first and said second elements having a first wavelength;
flexible interconnections in a repeating sequence with each of said first and each of said second elements and disposed in a generally circumferential space between each of said first and each of said second elements, said first elements being coupled to said second elements through said flexible interconnections, said flexible interconnections including third sinusoidal elements having a second wavelength that is shorter than said first wavelength, each of said first elements being connected to adjacent said second elements and none of said first and said second elements being directly connected to one another.

35. (new) The stent according to claim 34 wherein said third elements are characterized by a first amplitude and said first and said second elements are characterized by a second amplitude greater than said first amplitude.

36. (new) The stent according to claim 35, wherein adjacent said first and said second elements are about 180° out of phase with one another.

37. (new) A cylindrical expandable stent comprising:
first sinusoidal elements consisting essentially of a single sinusoidal pattern
arranged in a circumferential direction, said first elements aligned on a common longitudinal axis
to define a generally cylindrical stent body;

second sinusoidal elements consisting essentially of a single sinusoidal pattern
arranged in the circumferential direction, said second elements aligned on a common
longitudinal axis to define the stent body;


said first and said second elements having a first wavelength;

flexible interconnections in a repeating sequence with each of said first and each
of said second elements and disposed in a generally circumferential space between each of said
first and each of said second elements, said first elements being coupled to said second elements
through said flexible interconnections, said flexible interconnections including third sinusoidal
elements having a second wavelength that is shorter than said first wavelength, each of said first
elements being connected to adjacent said second elements and none of said first and said second
elements being directly connected to one another.

38. (new) The stent according to claim 37, wherein said third elements are
characterized by a first amplitude and said first and said second elements are characterized by a
second amplitude greater than said first amplitude.

39. (new) The stent according to claim 37, wherein the flexible interconnections are displaced circumferentially along the stent.

40. (new) The stent according to claim 38, wherein adjacent said first and said second elements are about 180° out of phase with one another.

41. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements, said elements aligned on a common longitudinal axis to define a generally cylindrical stent body,

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said elements including first and second sinusoidal elements, said first elements having a first wavelength, said second elements having a second wavelength, said second wavelength being longer than said first wavelength, and

 said second elements forming an alternating sequence with said first elements, adjacent said second elements being connected together through said first elements without direct connection therebetween.

42. (new) The stent according to claim 41, wherein said first elements are characterized by a first amplitude and said second elements are characterized by a second amplitude greater than said first amplitude.

43. (new) The stent according to claim 41 wherein adjacent said second elements are about 180° out of phase with one another.

44. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements consisting essentially of a single sinusoidal pattern, said elements having alternating peaks and troughs aligned on a common longitudinal axis to define a generally cylindrical stent body, the peaks and troughs taking a generally longitudinal direction along the stent,

said elements including first and second sinusoidal elements, said first elements having a first wavelength, said second elements having a second wavelength, said second wavelength being longer than said first wavelength, and

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said second elements forming an alternating sequence with said first elements, adjacent said second elements being connected together through said first elements without direct connection therebetween.

45. (new) The stent according to claim 44 wherein said first elements are characterized by a first amplitude and said second elements are characterized by a second amplitude greater than said first amplitude.

46. (new) The stent according to claim 44 wherein adjacent said second elements are about 180° out of phase with one another.

47. (new) A cylindrical expandable stent comprising:
first vertical sinusoidal elements and second vertical sinusoidal elements generally arranged in a circumferential direction to define a generally cylindrical stent body, said

first and said second vertical sinusoidal elements alternating in sequence and having a first and a second frequency, respectively, and

each of said second elements having respectively a higher frequency than each of said first elements, said first and said second elements being coupled together in a sequence without any elements of the same frequency directly coupled together.

48. (new) The stent according to claim 47, wherein said first element is further characterized by a first amplitude and said second element is further characterized by a second amplitude less than said first amplitude.

49. (new) The stent according to claim 47, wherein adjacent said first elements are about 180° out of phase with one another.

50. (new) A cylindrical expandable stent comprising:
a first vertical sinusoidal element and a second vertical sinusoidal element, both elements consisting essentially of a single sinusoidal pattern and generally arranged in a circumferential direction to define a generally cylindrical stent body, said first and said second vertical sinusoidal elements alternating in sequence and having a first and a second frequency, respectively, and

each of said second elements having respectively a higher frequency than each of said first elements, said first and said second elements being coupled together in a sequence without any elements of the same frequency directly coupled together.

51. (new) The stent according to claim 50, wherein said first element is further characterized by a first amplitude and said second element is further characterized by a second amplitude less than said first amplitude.

52. (new) The stent according to claim 51, wherein adjacent first elements are about 180° out of phase with one another.

53. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements arranged in a circumferential direction, said
elements aligned on a common longitudinal axis to define a stent body; and
a plurality of flexible interconnecting elements having first and second ends, said
first and said second ends of each of said interconnecting elements extending from adjacent
sinusoidal elements, said first and said second ends of each of said interconnecting elements
displaced circumferentially along the stent.

54. (new) The stent of claim 53 wherein said flexible interconnecting elements
comprise a plurality of sinusoidal second elements having a shorter wavelength than said first
elements.

55. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements arranged in a circumferential direction, said
elements aligned on a common longitudinal axis to define a stent body; and

a plurality of flexible interconnecting elements having first and second ends extending therefrom, said first and said second ends of each of said interconnecting elements connecting adjacent sinusoidal elements, said first and said second ends of each of said interconnecting elements displaced circumferentially along the stent.

56. (new) The stent of claim 55, wherein said flexible interconnecting elements comprise a plurality of sinusoidal second elements having a shorter wavelength than said first elements.

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57. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements arranged in a circumferential direction consisting essentially of a single sinusoidal pattern, said elements having alternating peaks and troughs, aligned on a common longitudinal axis to define a stent body, the peaks and troughs taking a generally longitudinal direction along the stent; and

a plurality of flexible interconnecting elements having first and second ends, said first and said second ends of each of said interconnecting elements extending from adjacent sinusoidal elements, said first and said second ends of each of said interconnecting elements displaced circumferentially along the stent.

58. (new) The stent of claim 57, wherein said flexible interconnecting elements comprise a plurality of sinusoidal second elements having a shorter wavelength than said first elements.

59. (new) A cylindrical expandable stent comprising:
a plurality of sinusoidal elements arranged in a circumferential direction
consisting essentially of a single sinusoidal pattern, said elements having alternating peaks and
troughs, aligned on a common longitudinal axis to define a stent body, the peaks and troughs
taking a generally longitudinal direction along the stent; and
a plurality of flexible interconnecting elements having said first and said second
ends extending therefrom, said first and said second ends of each of said interconnecting
elements connecting adjacent sinusoidal elements, said first and said second ends of each of said
interconnecting elements displaced circumferentially along the stent.

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60. (new) The stent of claim 59 wherein said flexible interconnecting elements
comprise a plurality of sinusoidal second elements having a shorter wavelength than said first
elements.

REMARKS

Applicants respectfully request favorable consideration of the present application and
claims.

Claims 18-60 have been added and are directed to embodiments of applicant's invention
described in the specification. No new matter has been added. Support for these new claims can
be found throughout the specification, for example, on page 23, lines 21-24; page 24, lines 1-6;
page 17, lines 21-24; page 18, lines 1-18; page 18, lines 19-24; page 19, lines 1-14; page 20,
lines 3-11; page 21 lines 3-11; page 21 lines 12-24 and in the figures.